

Application No.: 10/573,635
Paper Dated: September 18, 2008
In Reply to USPTO Correspondence of March 19, 2008
Attorney Docket No.: 2950-060834

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

1. (Currently Amended) A steel/aluminum welded structure comprising: a hot-dip Al-coated steel sheet having a coating layer, consisting of, by mass, 3-12% Si, 0.5-5% Fe and the balance being Al except inevitable impurities, and an Al-Fe-Si ternary alloy layer formed at an interface between a steel substrate and the coating layer; and

an aluminum or aluminum alloy sheet spot welded to the Al-coated steel sheet; wherein an area ratio of an Al-Fe binary alloy layer to a whole of an Al/Fe joint boundary is controlled to 90% or less, and an Al-Fe alloy free region exists between the Al-Fe binary alloy layer and the Al-Fe-Si ternary alloy layer, and

wherein the coating layer is formed on a steel substrate containing 0.002-0.020% N, and the coating layer is formed on a N-enriched surface of the steel substrate, N concentration of the N-enriched surface being 3.0% or more, by atom.

2. (Cancelled).

3. (Currently Amended) The steel/aluminum welded structure of Claim 1, wherein:

the aluminum or aluminum alloy sheet contains Fe at a ratio content of not more than 1.0%.

4. (Previously Presented) The steel/aluminum welded structure of Claim 1, wherein:

the aluminum alloy sheet contains 0.1-6.0% of Mg and 3.0% or less of Si.

5. (Currently Amended) The steel/aluminum welded structure of Claim 2, wherein:

the aluminum or aluminum alloy sheet contains Fe at a ratio content of not more than 1.0%.

Application No.: 10/573,635

Paper Dated: September 18, 2008

In Reply to USPTO Correspondence of March 19, 2008

Attorney Docket No.: 2950-060834

6. (Previously Presented) The steel/aluminum welded structure of Claim 2, wherein:

the aluminum alloy sheet contains 0.1-6.0% of Mg and 3.0% or less of Si.

7. (Previously Presented) The steel/aluminum welded structure of Claim 3, wherein:

the aluminum alloy sheet contains 0.1-6.0% of Mg and 3.0% or less of Si.